


<b>EASA</b>	<b>AIRWORTHINESS DIRECTIVE</b>
	<p><b>AD No.: 2007- 0226R1</b></p> <p><b>Date: 10 November 2009</b></p> <p>Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.</p>
<p>This AD is issued in accordance with EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].</p>	
<p><b>Type Approval Holder's Name :</b></p> <p>ATR - GIE Avions de Transport Régional</p>	<p><b>Type/Model designation(s) :</b></p> <p>ATR 42 series and ATR 72 series aeroplanes</p>
TCDS Number :	EASA A.084
Foreign AD :	Not applicable
Revision:	This directive revises AD 2007-0226 dated 24 August 2007.
<b>ATA 28</b>	<b>Fuel - Fuel Tank System Wiring &amp; Sensors - Modification/Replacement - Fuel Tank Safety</b>
Manufacturer(s):	ATR-GIE Avions de Transport Régional (formerly AEROSPATIALE-AERITALIA, AEROSPATIALE-ALENIA, AEROSPATIALE ATR-ALENIA, EADS ATR-ALENIA)
Applicability:	<p>All ATR 42 series aircraft models, all serial numbers, except aircraft that have received ATR modification 05355 in production or ATR Service Bulletin (SB) ATR42-28-0039 Revision 3 or any later approved revision in service and</p> <p>All ATR 72 series aircraft models, all serial numbers, except aircraft that have received ATR modification 05356 in production or ATR SB ATR72-28-1019 Revision 5 or any later approved revision in service.</p>
Reason:	<p>Further to the accident of Boeing 747-131 (flight TWA 800), the FAA has published a set of new rules related to the fuel tank safety, including the Special Federal Aviation Regulation 88 (SFAR 88).</p> <p>The JAA has issued an Interim Policy JAA INT/POL 25/12, to recommend the application of a similar requirement to the National Aviation Authorities (NAA).</p> <p>This recommendation was followed by French DGAC, which rendered the compliance to JAA INT/POL 25/12 mandatory for all ATR Aircraft.</p> <p>Under this regulation, all holders of type certificates are required to conduct a design review of their fuel tank systems against explosion risk. It also requires the development and implementation of maintenance and</p>

	<p>inspection instructions to maintain the safety of the fuel tank system.</p> <p>To answer JAA INT/POL 25/12, and in accordance with SFAR 88 requirements and guideline, ATR carried out a safety review on the fuel tank systems and zones adjacent to the fuel tanks on all ATR models using relevant safety assessment methods of JAR 25.1309.</p> <p>As a result of this safety review, ATR developed for ATR 42 the modification 05355 (SB ATR42-28-0039), and for ATR 72 the modification 05356 (SB ATR72-28-1019). Those modifications consist in the installation of fuses adapters on wiring entering the fuel tanks and current limitation devices. For ATR 72 aircraft, the modification also requires replacement of the high level sensors with new sensors having shorter harness.</p> <p>Embodiment of these modifications or Service bulletins provides full compliance with JAR 25.1309 and eliminates the unsafe conditions in accordance with SFAR 88 and AC 25-981-1B guidelines.</p> <p>EASA Airworthiness Directive (AD) 2006-0186 was issued to mandate compliance with SB ATR42-28-0039 Revision 1 and SB ATR72-28-1019 Revision 1. Missing components or discrepancies depending on aircraft variants were evidenced during its application. Consequently, both SBs were revised to correct these situations.</p> <p>The initial issue of the present AD superseded AD 2006-0186, and required application of SB ATR42-28-0039 Revision 3 and ATR72-28-1019 Revision 5 as well as some additional works for aircraft to which a previous revision of those SBs has been applied.</p> <p>For logistical considerations and after evaluation of fleet exposure, the revision 1 of this AD is published to extend the compliance date from 31 December 2009 to 28 August 2011.</p>
Effective Date:	<p>AD 2007- 0226 Revision 1: 24 November 2009</p> <p>AD 2007- 0226 Initial issue: 07 September 2007</p>
Required Action(s) and Compliance Time(s):	<p>Required before 28 August 2011, unless accomplished previously.</p> <p><b>1. For all ATR aircraft NOT ALREADY MODIFIED per any previous revisions of SB ATR42-28-0039 or ATR72-28-1019.</b> Modify the fuel system, in accordance with instructions of SB ATR42-28-0039 Revision 3 for ATR 42 series aircraft or SB ATR72-28-1019 Revision 5 for ATR 72 series aircraft.</p> <p><b>2. For ATR 42 aircraft ALREADY MODIFIED per a previous revision of SB ATR42-28-0039.</b></p> <p>(a) On aircraft in compliance with SB ATR42-28-0039 Revision 1.</p> <ul style="list-style-type: none"> <li>- Install all of the components delivered in the kit S280039A04.</li> <li>- Perform additional works as detailed in the Transmittal Sheet of SB ATR42-28-0039 Revision 3.</li> </ul> <p>(b) On aircraft in compliance with SB ATR42-28-0039 Revision 2.</p> <ul style="list-style-type: none"> <li>- Perform additional works as detailed in the Transmittal Sheet of SB ATR42-28-0039 Revision 3.</li> </ul> <p><b>3. For ATR 72 aircraft ALREADY MODIFIED per a previous revision of SB ATR72-28-1019.</b></p> <p>(a) On aircraft in compliance with SB ATR72-28-1019 Revision 1:</p> <ul style="list-style-type: none"> <li>- Install all of the components delivered in the kit S281019A03 and in the kit S281019A04.</li> <li>- Perform additional works as detailed in the Transmittal Sheet of SB ATR72-28-1019 Revision 4.</li> <li>- Verify the backshell for correct installation as detailed in the</li> </ul>

	<p style="text-align: center;">Transmittal Sheet of SB ATR72-28-1019 Revision 5</p> <p>(b) On aircraft in compliance with SB ATR72-28-1019 Revision 2:</p> <ul style="list-style-type: none"> <li>- Install all of the components delivered in the kit S281019A04.</li> <li>- Perform additional works as detailed in the Transmittal Sheet of SB ATR72-28-1019 Revision 4.</li> <li>- Verify the backshell for correct installation as detailed in the Transmittal Sheet of SB ATR72-28-1019 Revision 5.</li> </ul> <p>(c) On aircraft in compliance with SB ATR72-28-1019 Revision 3:</p> <ul style="list-style-type: none"> <li>- Perform additional works as detailed in the Transmittal Sheet of SB ATR72-28-1019 Revision 4.</li> <li>- Verify the backshell for correct installation as detailed in the Transmittal Sheet of SB ATR72-28-1019 Revision 5.</li> </ul> <p>(d) On aircraft in compliance with SB ATR72-28-1019 at Revision 4:</p> <ul style="list-style-type: none"> <li>- Verify the backshell for correct installation as detailed in the Transmittal Sheet of SB ATR72-28-1019 Revision 5.</li> </ul>
Ref. Publications:	<p>ATR-GIE Avions de Transport Régional Service Bulletins ATR42-28-0039 Revision 3 and ATR72-28-1019 Revision 5.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p>
Remarks :	<ol style="list-style-type: none"> <li>1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.</li> <li>2. This initial issue of this AD was posted on 21 June 2007 as PAD 07-102 for consultation until 19 July 2007. No comments were received during the consultation period.</li> <li>3. Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management &amp; Research Section, Certification Directorate, EASA. E-mail <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a></li> <li>4. For any question concerning the technical content of the requirements in this AD, please contact: <p style="text-align: center;">ATR - GIE Avions de Transport Régional Continued Airworthiness Service Tel.: +33 (0)5 62 21 62 21 - Fax: +33 (0) 5 62 21 67 18 E-mail: <a href="mailto:continued.airworthiness@atr.fr">continued.airworthiness@atr.fr</a></p> </li> </ol>